

Review Test Submission: Quiz 7.3

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Course	Intro to Control Systems - Fall 2020 Section Group I67
Test	Quiz 7.3
Started	10/19/20 12:13 PM
Submitted	10/19/20 12:14 PM
Status	Completed
Attempt Score	4 out of 4 points
Time Elapsed	1 minute
Results Displayed	Submitted Answers, Incorrectly Answered Questions

Question 1

1 out of 1 points



True or false? The error constant K_v is used to calculate the steady-state error of a Type 0 system in response to a unit step input.

Selected Answer: False

Question 2

1 out of 1 points



The steady-state error of a Type 0 system in response to a unit step is

Selected Answer:

$$e_{ss} = \frac{1}{1 + K_p}, K_p = \lim_{s \rightarrow 0} KG(s)$$

Question 3

1 out of 1 points



The steady-state error of a Type 1 system in response to a unit ramp is

Selected Answer:

$$e_{ss} = \frac{1}{K_v}$$

Question 4

1 out of 1 points



The error constant K_a is defined as

Selected Answer:

$$K_a = \lim_{s \rightarrow 0} s^2 KG(s)$$